FIRST COOPERATION TREA

	From the INTERNATIONAL BUREAU
PCT	То:
NOTIFICATION OF ELECTION (PCT Rule 61.2)	Assistant Commissioner for Patents United States Patent and Trademark Office Box PCT Washington, D.C.20231 ETATS-UNIS D'AMERIQUE
Date of mailing (day/month/year) 24 October 2000 (24.10.00)	in its capacity as elected Office
International application No.	Applicant's or agent's file reference
PCT/GB00/00966	HEP10891/901
International filing date (day/month/year)	Priority date (day/month/year) 23 March 1999 (23.03.99)
21 March 2000 (21.03.00)	23 Water 1333 (23.03.33)
Applicant CROWE Flict of all	
CROWE, Eliot et al	
1. The designated Office is hereby notified of its election made X in the demand filed with the International Preliminar 28 September	y Examining Authority on: 2000 (28.09.00) national Bureau on:
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer Zakaria EL KHODARY

Telephone No.: (41-22) 338.83.38

Facsimile No.: (41-22) 740.14.35

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PATENT COOPERATION TREATY

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PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicants of HEP10891	agent's lile relevence /901	FOR FURTHER ACTION	See Notification of Transmittal of Inflamational Preliminary Examination Roport (Form PCT/PEA/416)
ntemational :	application No.	International filing date (day/mont	Vyear) Priority data (day/month/year)
PCT/GB00	/00968	21/03/2000	23/08/1999
H01M2/12		or nedonal classification and IPC	
Applicant HAWKER	ENERGY PRODUCTS	S LIMITED	
1. This integral is t	emational praliminary as ranamitted to the applica	xamination report has been prepare ant according to Article 36.	d by this International Preliminary Examining Authority
2. This Al	EPORT consists of a total	al of 5 sheets, including this cover	sheet.
be	on amanded and are the	anied by ANNEXES, i.e. sheets of t a basis for this report and/or sheets on 607 of the Administrative linstruc	he description, cizims and/or drawings which have containing rectifications made before this Authority ions under the PCT).
These	annexes consist of a tot	ar bir i aineas.	
		s relating to the following items:	
1	Besis of the report		
1)	Priority	e at eathler with record to rewelly.	nventive step and industrial applicability
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<i>V</i>	Aeasoned statem	ent under Article 35(2) with regard to anations suporting such statement	o novelly, inventive step or Industrial applicability;
VI	☐ Certain document		
VII		the international application	
VIII	Certain observetk	on the international application	
Date of sub	mission of the demand	Date	of completion of finia report
28/09/20	00	17.05	.2001
Name and preliminary	mailing address of the inten- examining authority: European Palent Office	national Author	orized officer
<u></u>	D-80295 Munich Tel. +49 89 2399 - D TX		er-Goldbacher, U
ا 	Fax: +49 88 2989 - 4465		thane No. +49 89 2398 7527

INTERNATIONAL PRELIMINARY **EXAMINATION REPORT**

International application No. PCT/GB00/00966

L.	RAG	is of the report				
1.	the i and	eceiving Office in I	nemts of the International appli response to an Invitation under this report since they do not a	r Article 14 are	referred to in this r	eport as "originally filed" .
	1-4		as originally filed			,
	Clai	ms, No.:				
	1-9		as received on	26/08/2001	with latter of	26/03/2001
	Orav	wings, sheets;				
	1/7-	7/7	as originally filed			
2.	Will lang	regard to the language in which the	juage, all the elements marke international application was fi	d above were a led, unless oth	tvailable or fumlshe erwise indicated un	d to this Authority in the der this item.
	The	se aleme nts were :	avallable or fumished to this A	uthority in the f	ollowing lar guage:	, which is:
		the language of a	translation furnished for the pr	urposes of the	international search	(under Rule 23.1(b)).
		the language of pe	s lancitement ent to noitsoilds	pplication (und	ler Rule 48.않(b)).	
		the language of a 55.2 and/or 55.3).	translation fumished for the p	irposes of inte	mational preliminar	y examination (under Rule
Э.			cleatide and/or amino acid s ry examination was carried ou			
		contained in the in	itemational application in writt	ຂດ form.		
		filed together with	the international application in	computer rea	dable form.	
		furnished subsequ	lently to this Authority in writte	n form.		
			zently to this Authority in comp			
			at the subsequently furnished upplication as filed has been to		e iisting does not g	o beyond the disclosure in
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4.	The	amendments hav	e resulted in the cancellation of	rf.		
		the description,	pages:			
	₽	the claims,	Nos.:			

INTERNATIONAL PRELIMINARY **EXAMINATION REPORT**

International application No. PCT/GB00/00966

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		the drawings,	sheets:								
5.		This report has been considered to go be						ad not beer	n made, sh	nce they h	ave been
		(Any replacement a report.)	heet contain	ning such	amendi	ments mu	ist be refe	rred to und	eritem 1 a	and annexe	ed to this
6.	Adic	litional observations,	lf necessary	y :							
H).	, No	nestablishment of c	pinion with	n regard	to nove	lity, inve	ntive step	and indus	trial appli	cability	
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		the entire internation	nal applicati	on.							
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		the claims, or said could be formed.	taims Nos.	are so in	adequal	tely suppo	orted by th	e descriptio	on that no	meaningfu	l api nión
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V.		asoned statement u ations and explanati					relty, inve	entive step	or Indust	rîal applic	ability;
1.	Sta	tement									
	No	velty (N)	Yes:	Claims	4, 5, 6,	, В					

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/GB00/00966

No:

Yes:

Claims 1, 2, 3, 7

Inventive step (IS)

Yes: No:

Claims

Claims 1-8

Industrial applicability (IA)

Claims 1-8

No: Claims

Citations and explanations see separate sheet

INTERNATIONAL PRELIMINARY International application No. PCT/GB00/00966 EXAMINATION REPORT - SEPARATE SHEET

Re Item III

Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

Claim 9 refers to the contents of the drawings in some vague and not precisely defined way. This throws doubt on the extent of protection and renders this claim so unclear that no meaningful opinion could be formed (cf. Rule 6.2(a) PC1).

Re item V

Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Reference is made to the following documents:

- D1: US-A-4 338 383 (JUTTE GOTTFRIED W ET AL, INDIANAPOLIS, US) 6 July 1982
- D2: US-A-4 168 350 (OXENREIDER TERRY R ET AL, WERNERSVILLE, US) 18 September 1979
- D3: US-A-4 207 387 (JUTTE GOTTFRIED W, INDIANAPOLIS, US) 10 June 1980
- 1. The subject-matter of claims 1, 2, 3, and 7 does not meet the requirements of the PCT with respect to novelty.
- 1.1 D1 (cf. Col. 1, line 57 col. 2, line 8) or D2 (cf. col. 4, line 24 col. 5, line 10 and col 5, line 44 col. 6, line 16) disclose a battery casing comprising a lid having a top surface and a recess inset into the said surface, a vent at the base of the recess through which gas is expelled from the battery, a cover for sealingly covering said recess, sealing means between the cover and the recess, and a gas guide means formed integrally with the cover for guiding gas from the collection space away from the battery, wherein the cover may be positioned in more than one orientation.
- 1.2 As to dependent claim 2, D1 (cf. col. 3, lines 14-21) discloses a plurality of vents,

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one for each battery cell,

- 1.3 As to dependent claim 3, D1 (of. col. 3, lines 47-53) discloses a smooth surface formed by the cover and the battery.
- 1.4 As to dependent claim 7, D1 or D2 also disclose a removable cover.

Thus, the disclosure of D1 is taking away the novelty of the subject-matter of claims 1, 2, 3 and 7.

- 2. The subject-matter of claims 1-8, does not meet the requirements of Art. 33 PCT with respect to an inventive step.
- 2.1 The claims 1, 2, 3, 6, 7 and 8 are not inventive because they do not contain any novel features which show a surprising effect.
- 2.2 The features of dependent claims 4 and 5 have already been employed for the same purpose in a similar battery casing lid, see document D3, col. 4, lines 9-11 and fig. 2 (cf. especially "discharge port" 25 and "tubing segment" 26). It would therefore be obvious to the person skilled in the art, to apply these features with corresponding effect, namely the conveyance of the gases away from the battery, to a battery easing lid according to documents D1 or D2, thereby arriving at a battery casing lid according to claims 4 and 5.

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CLAIMS:

- A battery casing (1) comprising a lid (3) having a top surface and a recess (12) inset into the said top surface, a vent (17) at the base of the recess through which gas is expelled from the battery, a cover (25) for sealingly covering said recess, sealing means to provide a seal between the cover and the recess, a gas collection space being defined within the covered recess, and a gas guide means (43) formed integrally with and in one position within the cover for guiding gas from the collection space away from the battery, wherein the cover and therefore the gas guide means may be positioned in more than one orientation to the battery casing.
- 2 A battery casing according to Claim 1, comprising a plurality of vents (17) at the base of the recess, one for each of the battery cells.
- A battery casing according to either one of the preceding claims, wherein the top surface of the cover lies no higher than the adjacent surface of the battery.
- A battery casing according to any one of the preceding claims wherein the guide means comprises a nozzle (43) protruding from the cover and to which a flexible tube may be attached.
- A battery casing according to Claim 4, wherein the Ild has a channel (23, 24) extending from the recess in which the guide means is located.
- 6. A battery casing according to Claim 5, wherein the lid has a plurality of channels extending from the facess in at least one of which the guide means is located.
- A battery casing according to any one of the preceding claims, wherein the cover is removable from the lid.
- A battery casing according to any one of the preceding claims wherein the cover and the lid each has two straight parallel sides and two semi-circular ends, the guide means (43) being located in the middle of one semi-circular end of the lid.
- 9 A battery casing substantially as described herein with reference to and as illustrated in the accompanying drawings.

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INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.					
HEP10891/901	ACTION Leternational filips date (day/month/year) / (Farlicet) Priority Date (day/month/year)					
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)				
PCT/GB 00/00966	21/03/2000	23/03/1999				
Applicant						
HAWKER ENERGY PRODUCTS LI	MITED					
This International Search Report has been according to Article 18. A copy is being tra	n prepared by this International Searching Auth ansmitted to the International Bureau.	nority and is transmitted to the applicant				
This International Search Report consists X	of a total of sheets. a copy of each prior art document cited in this	report.				
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Basis of the report						
	international search was carried out on the bas ess otherwise indicated under this item.	is of the international application in the				
the international search w Authority (Rule 23.1(b)).	as carried out on the basis of a translation of the	ne international application furnished to this				
	d/or amino acid sequence disclosed in the in	ternational application, the international search				
was carried out on the basis of the contained in the internation	e sequence listing : anal application in written form.					
	rnational application in computer readable form	1.				
furnished subsequently to	ed subsequently to this Authority in written form.					
furnished subsequently to	shed subsequently to this Authority in computer readble form.					
	sequently furnished written sequence listing do s filed has been furnished.	oes not go beyond the disclosure in the				
the statement that the info furnished	ormation recorded in computer readable form is	identical to the written sequence listing has been				
2. Certain claims were four	nd unsearchable (See Box I).					
3. Unity of Invention is laci	king (see Box II).					
4. With regard to the title ,						
the text is approved as su						
the text has been establis	hed by this Authority to read as follows:					
	ŕ					
5. With regard to the abstract,						
the text is approved as su	bmitted by the applicant.					
	hed, according to Rule 38.2(b), by this Authorit date of mailing of this international search rep					
The figure of the drawings to be publication		1				
X as suggested by the applic	cant.	None of the figures.				
because the applicant faile	ed to suggest a figure.					
because this figure better	characterizes the invention.					

nternational application No.

INTERNATIONAL SEARCH REPORT

PCT/GB 00/00966

B x lil TEXT OF THE ABSTRACT (C ntinuation of item 5 of the first sheet)

The abstract has to be changed as follows: Line 1, after "casing" insert "(1)"; LIne 2, after "lid" insert "(3).", after "recess" insert "(12)" and after "vent" insert "(17)"; line 3, after "cover" insert "(25)".

INTERNATIONAL SEARCH REPORT

national Application No PCT/GB 00/00966

			1 C1/ GB 00/00900
A. CLASS	HO1M2/12 HO1M2/04		
According t	to International Patent Classification (IPC) or to both national cla	ssification and IPC	
B. FIELDS	SEARCHED		
Minimum d IPC 7	ocumentation searched (classification system followed by classi ${\tt H01M}$	fication symbols)	
Documenta	ation searched other than minimum documentation to the extent t	that such documents are inclu	uded in the fields searched
	data base consulted during the international search (name of dai nta, EPO-Internal, PAJ	ta base and, where practical	, search terms used)
C. DOCUM	ENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the	ne relevant passages	Relevant to claim No.
X	US 4 338 383 A (JUTTE GOTTFRIE INDIANAPOLIS, US) 6 July 1982 column 2, line 58 -column 5, l figures 1-9	(1982-07-06)	1-3,7,9
A	US 4 168 350 A (OXENREIDER TER WERNERSVILLE, US) 18 September 1979 (1979-09-18) column 1, line 6 - line 19 column 4, line 25 -column 7, l figures 1,4	1-3,7	
A	US 4 207 387 A (JUTTE GOTTFRIED INDIANAPOLIS, US) 10 June 1980 (1980-06-10) column 2, line 16 - line 34 column 3, line 13 -column 5, line 1,2		1,2,4-7
Furth	I her documents are listed in the continuation of box C.	χ Patent family r	members are listed in annex.
"A" docume consid 'E" earlier of filing docume which citation 'O" docume other r	ent which may throw doubts on priority claim(s) or is cited to establish the publication date of another n or other special reason (as specified) ent referring to an oral disclosure, use, exhibition or means	or priority date and cited to understand invention "X" document of particular cannot be consided involve an inventive and comment of particular cannot be consided document is combiled.	ished after the international filing date in not in conflict with the application but dithe principle or theory underlying the illar relevance; the claimed invention red novel or cannot be considered to e step when the document is taken alone illar relevance; the claimed invention red to involve an inventive step when the ined with one or more other such docunination being obvious to a person skilled
	ent published prior to the international filing date but nan the priority date claimed		of the same patent family
	actual completion of the international search		he international search report
	9 June 2000	07/07/20	000
Name and n	nailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31–70) 340–2040, Tx. 31 651 epo nl, Fax: (+31–70) 340–3016	Authorized officer	

INTERNATIONAL SEARCH REPORT

nation on patent family members

national Application No	
PCT/GB 00/00966	

	Patent document cited in search report	Publication date	Patent family member(s)	Publication date
•	US 4338383 A	06-07-1982	US 4214045 A CA 1129949 A MX 146909 A	22-07-1980 17-08-1982 03-09-1982
	US 4168350 A	18-09-1979	CA 1121450 A GB 1599354 A	06-04-1982 30-09-1981
	US 4207387 A	10-06-1980	NONE	